

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/051941 A1

(51) International Patent Classification⁷: **C07D 339/04**

(21) International Application Number:
PCT/KR2003/002553

(22) International Filing Date:
25 November 2003 (25.11.2003)

(25) Filing Language: Korean

(26) Publication Language: English

(71) Applicant (for all designated States except US): **CJ CORPORATION** [KR/KR]; 500, Namdaemunro5-ga, Jung-gu, Seoul 100-749 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHO, Il-Hwan** [KR/KR]; 104-102 Hangangtown Apt., Gayang-dong, Gangseo-gu, Seoul 157-200 (KR). **CHAE, Myeong-Yun** [KR/KR]; 603-402 Ssangyong Apt., Sunae-dong, Bundang-gu, Sungnam-city, Kyungki-do 463-781 (KR). **KIM, Young-Hoon** [KR/KR]; 103-902 Daewoo Apt., Youngdeungpol-dong, Youngdeungpo-gu, Seoul 150-797 (KR). **YEON, Kyu-Jeong** [KR/KR]; 126-801 Yeonwonmaeul Samhobyuksan Apt., 524-8 Mabuk-ri, Guseong-eup, Yongin-city 449-912, Kyungki-do (KR). **LYU, Chun-Seon** [KR/KR]; 201-201 Geumhwamaeul Jugonggreenvil, 479 Sanggal-ri, Giheung-eup, Yongin-city 449-900, Kyungki-do (KR). **KIM, Jong-Hoon** [KR/KR]; 503-503 Gongjaklucky Apt., 1587 Gwanyang-dong, Dongan-gu, Anyang-city 431-060, Kyungki-do (KR). **JUNG, Sung-Hak** [KR/KR]; 47-402 Jugong Apt., Gaepol-dong, Gangnam-gu, Seoul 135-966 (KR). **PARK, Sang-Wook** [KR/KR]; 201-1505 Jugong2-danji, Woncheon-dong, Paldal-gu, Suwon-city 442-380, Kyungki-do (KR). **RYU,**

Hyung-Chul [KR/KR]; 601-511 Sanggal Apt., Sanggal-ri, Giheung-eup, Yongin-city, Kyungki-do 449-905 (KR). **NOH, Ji-Young** [KR/KR]; Rm. 503 Byuksan-greenvilla, Jangjeon2-dong, Geumjeong-gu, Busan-city 609-392 (KR). **PARK, Hyun-Jung** [KR/KR]; 102-811 Woosin Apt., Dongsan-dong, Deokjin-gu, Jeonju-city, Jeollabuk-do 561-752 (KR). **PARK, Jie-Eun** [KR/KR]; 127-2 Dangu-dong, Wonju-city, Gangwon-do 220-090 (KR). **CHUNG, Young-Mee** [KR/KR]; 325-13 Cheoncheon-dong, Jangan-gu, Suwon-city, Kyungki-do 440-330 (KR).

(74) Agent: **LEE, Young-Pil**; The Chunghwa Building, 1571-18 Seocho-dong, Seocho-gu, Seoul 137-874 (KR).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: THIONE DERIVATIVES, PROCESSES FOR THE PREPARATION THEREOF, AND PHARMACEUTICAL COMPOSITIONS CONTAINING THE SAME

(57) Abstract: A 1,2,4-triazole derivative of formula (1) or a non-toxic salt thereof, a preparation method thereof, and a pharmaceutical composition containing the derivative or the salt as an active ingredient are provided.

BEST AVAILABLE COPY



WO 2005/051941 A1